SMP3CTX Series - Installation Guide

SMP3CTX Series Power Supply Configuration Reference Chart:

Altronix Model Number	Accessory Power Distribution Module(s)	Number of Outputs	Fused Outputs	PTC Outputs	Individual Output Rating (amp)	Supervised	115VAC / 230VAC Input Current (amp)	12/24VDC Total Output Current (amp)
SMP3CTX	-	1	-	-	-	-	.65 / .35	2.5
SMP3PMCTX	-	1	-	-	-	x	.65 / .35	2.5
SMP3PMCTXX	-	1	-	-	-	x	.65 / .35	2.5
SMP3PMP4	PD4	4	x	-	3.5	x	.65 / .35	2.5
SMP3PMP4CB	PD4CB	4	-	x	2.5	x	.65 / .35	2.5
SMP3PMP8	PD8	8	x	-	3.5	x	.65 / .35	2.5
SMP3PMP8CB	PD8CB	8	-	x	2.5	x	.65 / .35	2.5
SMP3PMP16	PD16W	16	x	-	3.5	x	.65 / .35	2.5
SMP3PMP16CB	PD16WCB	16	-	x	2.5	x	.65 / .35	2.5

Overview:

These units will convert a 115VAC or 230VAC, 50/60Hz input, into a regulated 12VDC or 24VDC output up 2.5 amp of continuous load current (see specifications).

Specifications:

- Universal 115/230VAC input.
- Maximum charge current .5 amp.
- Filtered and electronically regulated outputs.
- Built-in charger for sealed lead acid or gel type batteries.
- Automatic switch over to stand-by battery when AC fails (zero voltage drop).
- AC input and DC output LED indicators.
- Short circuit and thermal overload protection.
- Complete with power supply, power distribution module (when applicable), enclosure, cam lock & battery leads.
- Power on-off switch.

Supervised models only:

- AC fail supervision (form "C" contacts).
- Low battery supervision (form "C" contacts).

Power Supply Voltage Output Specifications: *

Output VDC	Switch Position	Max. Load DC
12VDC	SW1 - Closed *(Fig. 1b, pg. 3)*	2.5 amp
24VDC	SW1 - Open *(Fig. 1b, pg. 3)*	2.5 amp

*Specified at 25˚ C ambient.

Installation Instructions:

Wiring methods shall be in accordance with the National Electrical Code/NFPA 70/NFPA 72/ANSI, and with all local codes and authorities having jurisdiction. Product is intended for indoor use only.

1. Mount unit in desired location. Mark and predrill holes in the wall to line up with the top two keyholes in the enclosure. Install two upper fasteners and screws in the wall with the screw heads protruding. Place the enclosure's upper keyholes over the two upper screws, level and secure. Mark the position of the lower two holes. Remove the enclosure. Drill the lower holes and install the three fasteners. Place the enclosure's upper keyholes over the two upper screws. Install the two lower screws and make sure to tighten all screws *(Enclosure Dimensions, pg. 4)*. Secure enclosure to earth ground.
2. Set SW1 on the power supply board to the desired DC output voltage *(Power Supply Voltage Output Specification Chart)*.

3. Connect AC power to terminals marked [L & N], connect ground to terminal marked [G] (if used).
   Use 18 AWG or larger for all power connections (Battery, DC output).
   Use 22 AWG to 18 AWG for power limited circuits (AC Fail/Low Battery reporting).
4. Measure output voltage before connecting devices. This helps avoid potential damage.
5. Connect devices to be powered:
   a. For Power Supply Board connect to terminals marked [– DC +].
   b. For Power Distribution Module(s) connect devices to be powered to terminal pairs 1 to 4 marked [1P & 1N thru 4P & 4N] *(Fig. 2, pg. 3),* 1 to 8 marked [1P & 1N thru 8P & 8N] *(Fig. 3, pg. 3),* or 1 to 16 marked [1P & 1N thru 16P & 16N] *(Fig. 4, pg. 3)* carefully observing correct polarity.
   ***Note:** Power switch is used to disconnect the L (HOT) terminal from the rest of the board. When servicing the unit, AC mains should be removed.
6. When using stand-by batteries, they must be lead acid or gel type. Connect battery to terminals marked [– BAT +] (battery leads included). Use two (2) 12VDC batteries connected in series for 24VDC operation.
   Note: When batteries are not used a loss of AC will result in the loss of output voltage.

For supervised models only:

7. Connect appropriate signaling notification devices to AC Fail & Low Bat supervisory relay outputs marked [NC, C, NO] *(Fig. 1a, pg. 3).*

LED Diagnostics:

Red (DC)	Green (AC)	Power Supply Status
ON	ON	Normal operating condition.
ON	OFF	Loss of AC, Stand-by battery supplying power.
OFF	ON	No DC output.
OFF	OFF	Loss of AC. Discharged or no stand-by battery. No DC output.

Terminal Identification:

Terminal Legend	Function/Description
L, G, N	Connect 115VAC/230VAC to these terminals: L to Hot, N to Neutral, G to ground (if used).
– DC +	12VDC / 24VDC @ 2.5 amp continuous non-power limited output.
*AC FAIL NC, C, NO	Indicates loss of AC power, e.g. connect to audible device or alarm panel. Relay normally energized when AC power is present. Contact rating 1 amp @ 120VAC / 28VDC.
*Low Battery NC, C, NO	Indicates low battery condition, e.g. connect to alarm panel. Relay normally energized when DC power is present. Contact rating 1 amp @ 120VAC / 28VDC Low battery threshold: 12VDC output threshold set @ approximately 10.5VDC, 24VDC output threshold set @ approximately 21VDC.
– BAT +	Stand-by battery connections. Maximum charge rate .5 amp.

***Note:** Supervised models only

PD4/PD4CB/PD8/PD8CB/PD16W/PD16WCB - Power Distribution Module

Terminal Legend			Function/
PD4/PD4CB	PD8/PD8CB	PD16W/PD16WCB	Description
1P to 4P	1P to 8P	1P to16P	Positive DC power outputs.
1N to 4N	1N to 8N	1N to 16N	Negative DC power outputs.

Fig. 1

CAUTION: De-energize unit prior to servicing.

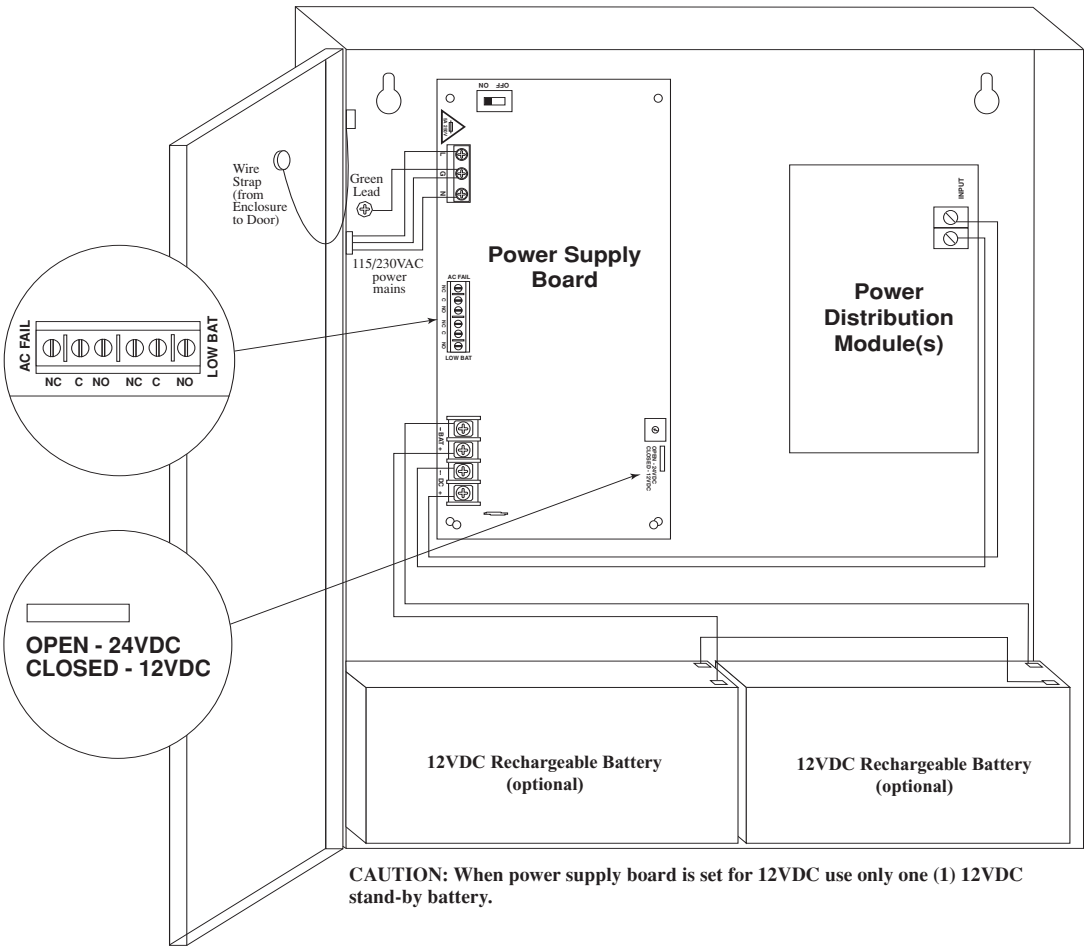


Fig. 1a

Fig. 1b

CAUTION: When power supply board is set for 12VDC use only one (1) 12VDC stand-by battery.

Power Distribution Module(s):

Fig. 2

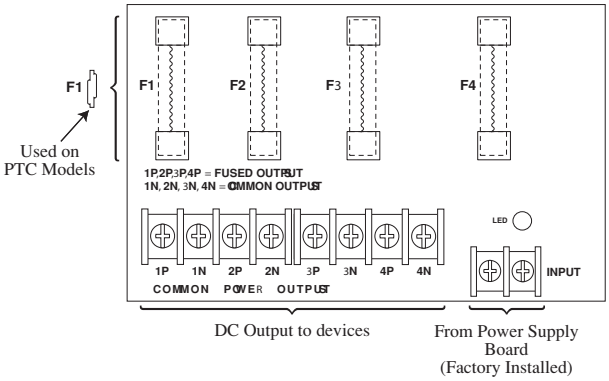


Fig. 3

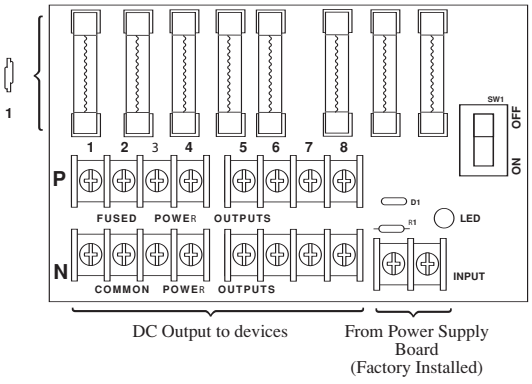
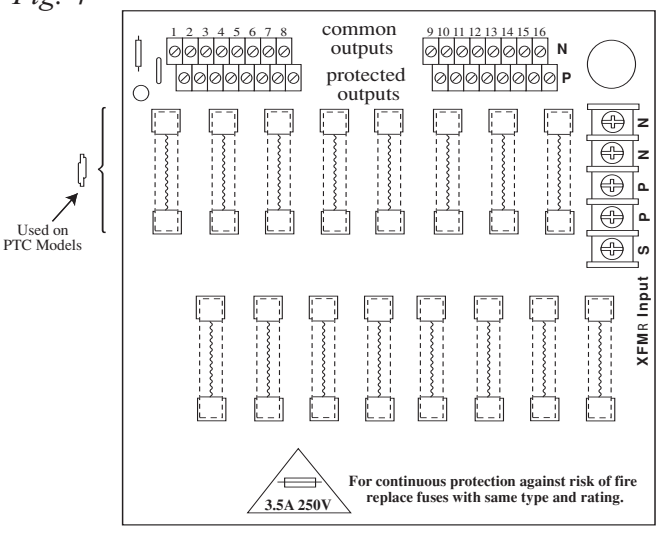


Fig. 4

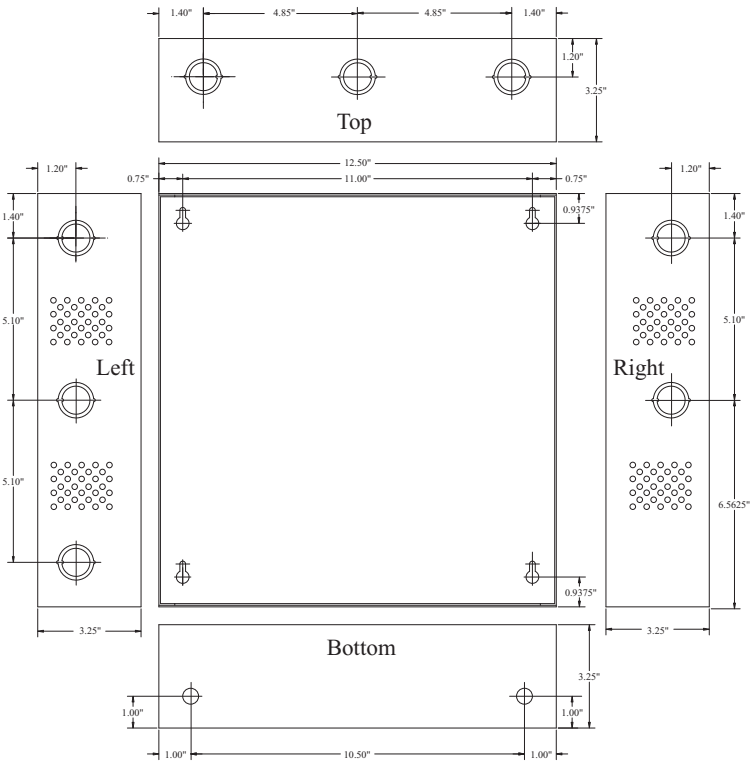


Enclosure Dimensions for:

- ***SMP3CTX***
- ***SMP3PMCTX***
- ***SMP3PMP4***
- ***SMP3PMP4CB***
- ***SMP3PMP8***
- ***SMP3PMP8CB***
- ***SMP3PMP16***
- ***SMP3PMP16CB***

13.5”H x 13”W x 3.25”D
Enclosure accommodates up to two (2) 12VDC/7AH batteries.

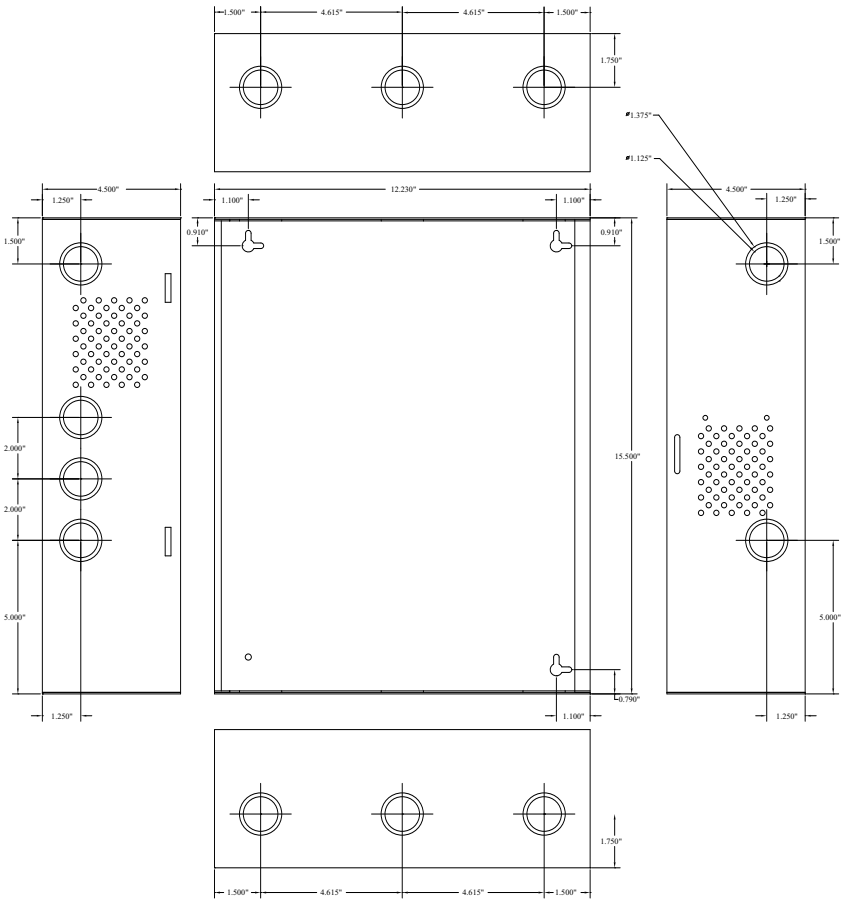
Also available to accommodate up to two (2) 12VDC/12AH batteries (please contact Altronix).



Enclosure Dimensions for:

- ***SMP3PMCTXX***

15.5”H x 12.23”W x 4.5”D
Enclosure accommodates up to two (2) 12VDC/12AH batteries.



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